

95-8.

NOV 13 1912

# Healthful Heat

from a **HOMER** ORIGINAL PATENTED pipeless

## Furnace







**SAMUEL D. STRONG**  
Inventor of the Pipeless Furnace



# HOMER

ORIGINAL PATENTED  
PIPELESS FURNACE

*with the*

**Thermo-Seal**

*Inner Lining*



*It Heats It Ventilates It Satisfies*

*Less Price Less Fuel More Heat*

**The Homer Furnace Company**  
Homer, Michigan, U. S. A.

**WAREHOUSES:**

St. Paul, Minn. Des Moines, Iowa Kansas City, Mo. Grand Rapids, Wis.  
Millville, N. J. Denver, Col. Portland, Ore. Hannibal, Mo. Sioux Falls, S. Dak.





HOMER ORIGINAL PATENTED PIPELESS FURNACE

THE  
**HOMER**  
ORIGINAL PATENTED  
PIPELESS FURNACE

As it will look when installed in your basement



*No Pipes, No Flues, No Dirt, No Dust*

Note its clean cut lines, its sturdiness, its simplicity. And its operation bears out its appearance. It will heat and ventilate your house perfectly and at the same time allow you to use your basement for cold storage purposes. Because the Homer is scientifically adapted to nature's laws, no heat is wasted in the basement. The improvements made in ten years' production still maintain the original patented pipeless furnace as the standard in its field.





## *Confidence in the Homer*

**T**EN years ago, Mr. S. D. Strong, president of the Homer Furnace Company, offered the public the first patented pipeless furnace. Today there are more Homers in use than all other Pipeless Furnaces combined. No stronger confidence in a furnace can be expressed than by the universal adoption of the Homer and the pipeless heating principle.

The first Homer was a radical departure from the heating and ventilating methods then in use. Yet, it was a logical change. When Mr. Strong swept aside inefficient pipes and designed a simple furnace to heat and ventilate through one combination register, he based his plans on sound laws of nature.

In the great outdoors warm air rises and cool air, being heavier, descends. This movement is naturally straight up and down. And so it is with the Homer.

On leaving the center section of the register the warm air rises, spreads out and is deflected by the walls and ceilings. The steady flow of warm and pure air fills every corner and nook of the house and forces the return air back through the outer portion of the register to the furnace, where it is heated again.

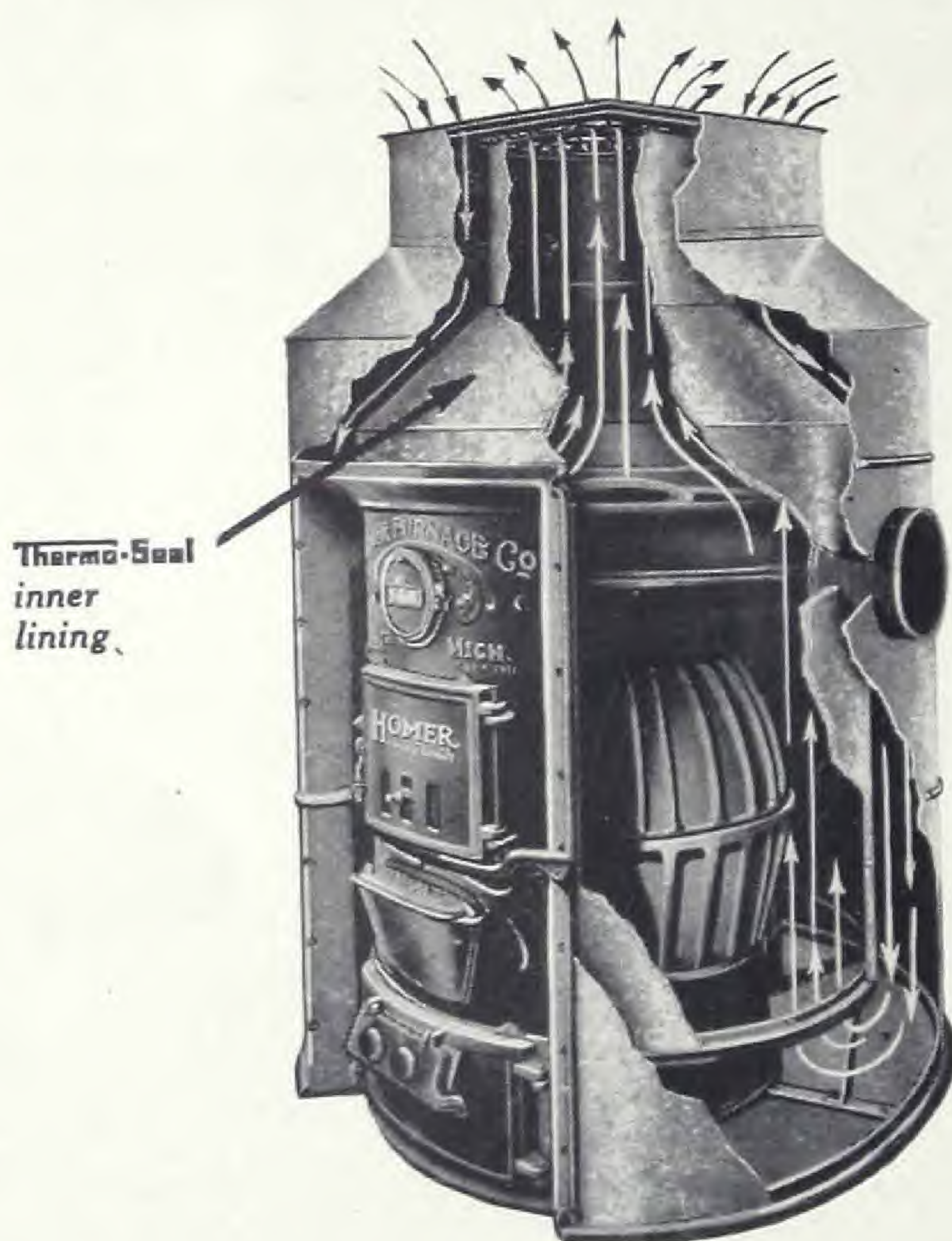
As long as there is a fire in the Homer, there is a circulation of pure, moist, warm air throughout the house. Our famous Thermo-Seal Inner Lining insures this circulation.





**HOMER ORIGINAL PATENTED PIPELESS FURNACE**

## *How the Thermo-Seal Inner Lining Insures Circulation*



WHEN Mr. Strong applied the law of gravitation to the pipeless furnace, he found that there would be a circulation of warm air throughout the house if he could properly insulate the warm and cold air passages in the furnace.

His work led to the Thermo-Seal Inner Lining which is now one of the distinct Homer features.

In the sectional view you will note that the return air in the house, heavier than the warm air, passes down the outside chamber of the furnace protected from the radiator by the Thermo-

Seal Inner lining. When it reaches the base of the furnace, the return air enters the warm air passage, where it is heated, sterilized and moistened.

The Thermo-Seal Inner Lining protects the cool air until it is ready to be heated. It guarantees a circulation.

*You can get the perfect Thermo-Seal  
only on a Homer*





## **Thermo-Seal**

### *Inner-Lining result of Ten Years' Study*

YOU can see why our furnace experts have given particular care to the construction of the Thermo-Seal Inner Lining. For the last ten years their efforts have been directed toward perfecting the Thermo-Seal. They have designed a partition using asbestos as the chief insulating material. It is the best substance known to retain heat within a body or to keep it out.

The heavy asbestos sheets are protected on both sides by plates of galvanized steel. So, the Thermo-Seal Inner Lining keeps the heat where it is wanted. It keeps the return air chamber cool. Also, it means that you are not going to waste heat in your cellar.

### *Scientific Design*

The Thermo-Seal Inner Lining is a particular illustration of the Homer's superior design and construction. Every detail connected with the Homer's success has been worked out with just as much care. The correct size for air passages has been determined to insure the proper ratio of warm and cool air. Years have been devoted to the development of the Homer grates, heat chamber and radiator to produce the greatest amount of heat from every particle of fuel.





## ***Why the Homer Means Healthful Heat in your Home***

THE HOMER not only heats but it ventilates. It sets the air in the entire house in motion. About every twenty-five minutes all the air in the house passes through the furnace where it is heated, sterilized and moistened. The dead air is refreshed. As it passes over the radiator, it is thoroughly purified. Then, after the air has been humidified, it returns directly to the rooms—healthful. It is not carried around the house in heat-absorbing and dust-collecting pipes. It goes straight to the rooms it is expected to heat.

### ***Economical as well as Healthful***

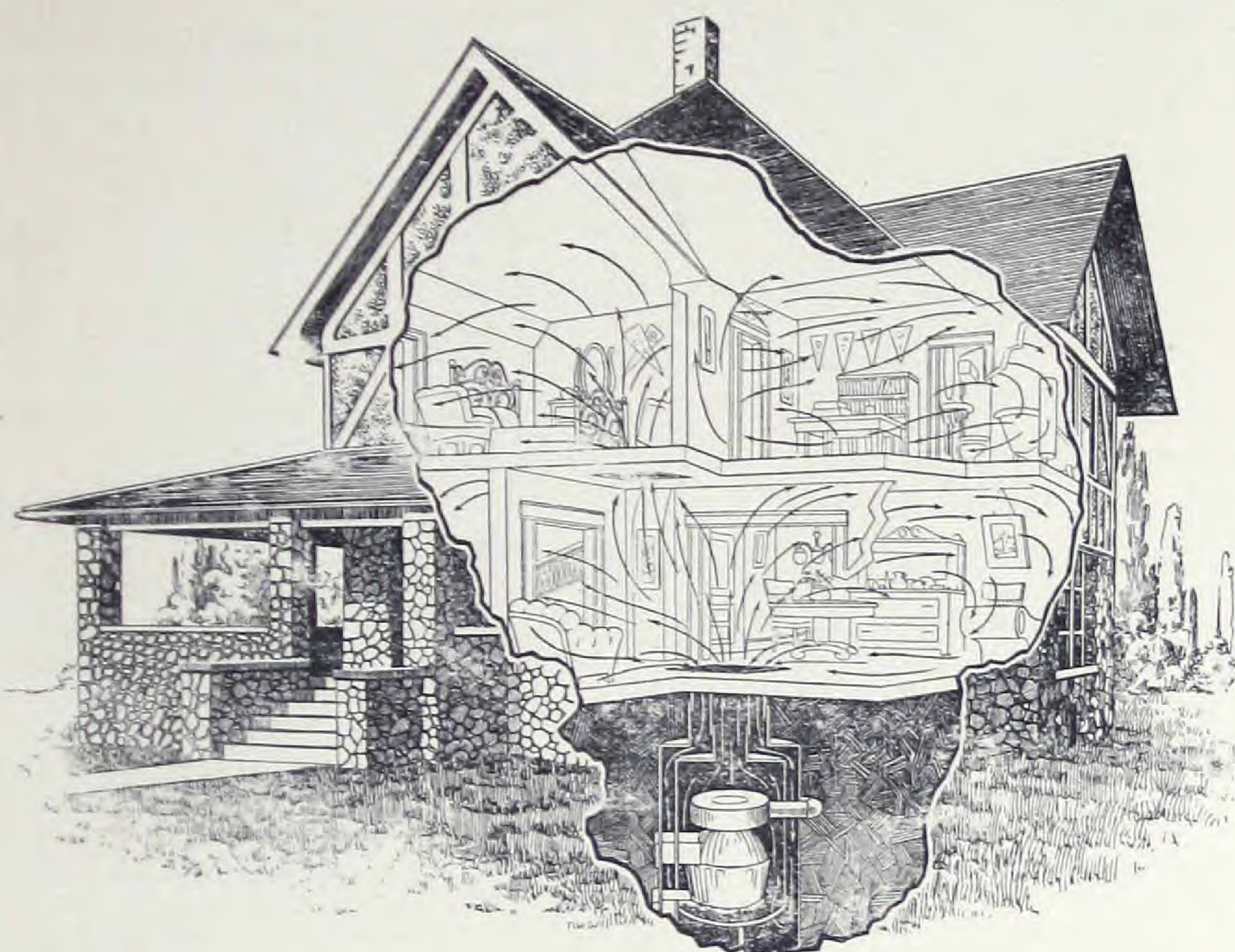
Because of its simplicity in construction, the cost of installing a Homer is decidedly less than installing any other type of modern heating plant. Its sturdiness makes the first cost the last cost.

Because it sends all the heat directly to the rooms and does not waste any in the cellar, it costs less to operate than any other type of furnace. Nature's help and scientific design mean economy. It will cut your fuel bill down by a third to a half.

### ***Easy to Install***

The one-register principle makes the Homer easy to install. Only one hole is cut in your floor for the combination register. There is no ripping out the walls or damaging the plaster. A saw, hammer and screw driver are the only tools needed to set up the Homer original patented pipeless furnace.





## *Homer Heat Fills the Whole House*

THE HOMER will heat your whole house—heat it satisfactorily without the pipes of the ordinary furnace and without the dust and dirt of the stove. Only one opening is made in the floor above the furnace. The heat reaches the rooms along the shortest possible path from the source. No heat energy is lost in being transferred about the cellar and through the walls in pipes.

As soon as the fire in the furnace is burning briskly, you will find that warm air has replaced the cool air in the house. On leaving the register the warm air rises and expands. It fills every nook and corner to which it has access—up stairways, through doors and if necessary through small registers placed in the floors of the upper rooms.

With this system it is an easy matter to regulate the temperature in your house. If at night you wish cool sleeping rooms, merely close the doors to the rooms. Thus, Homer heat will be conserved during the night to give you a warm house in the morning.

The warmth of your rooms depends entirely on the briskness of the fire in the furnace. The hotter the fire the greater the circulation of warm air.

And you can maintain an even temperature in your house with a greater saving in fuel than with any other type of furnace. The draft regulators are controlled from the living room.





# HOMER ORIGINAL PATENTED PIPELESS FURNACE



## Double Side-wall Combination

In some homes it is necessary to place the furnace directly underneath the partition, thereby necessitating the special arrangement shown above. The warm air passes out of the partition register in equal volume, while the return air is conducted to the

furnace through the two floor registers located directly at the base of the hot air register. This system has been manufactured by us only for several years, and has met with such favor that we have decided to catalog it. Made in all sizes.





### *Double Combination Homer*

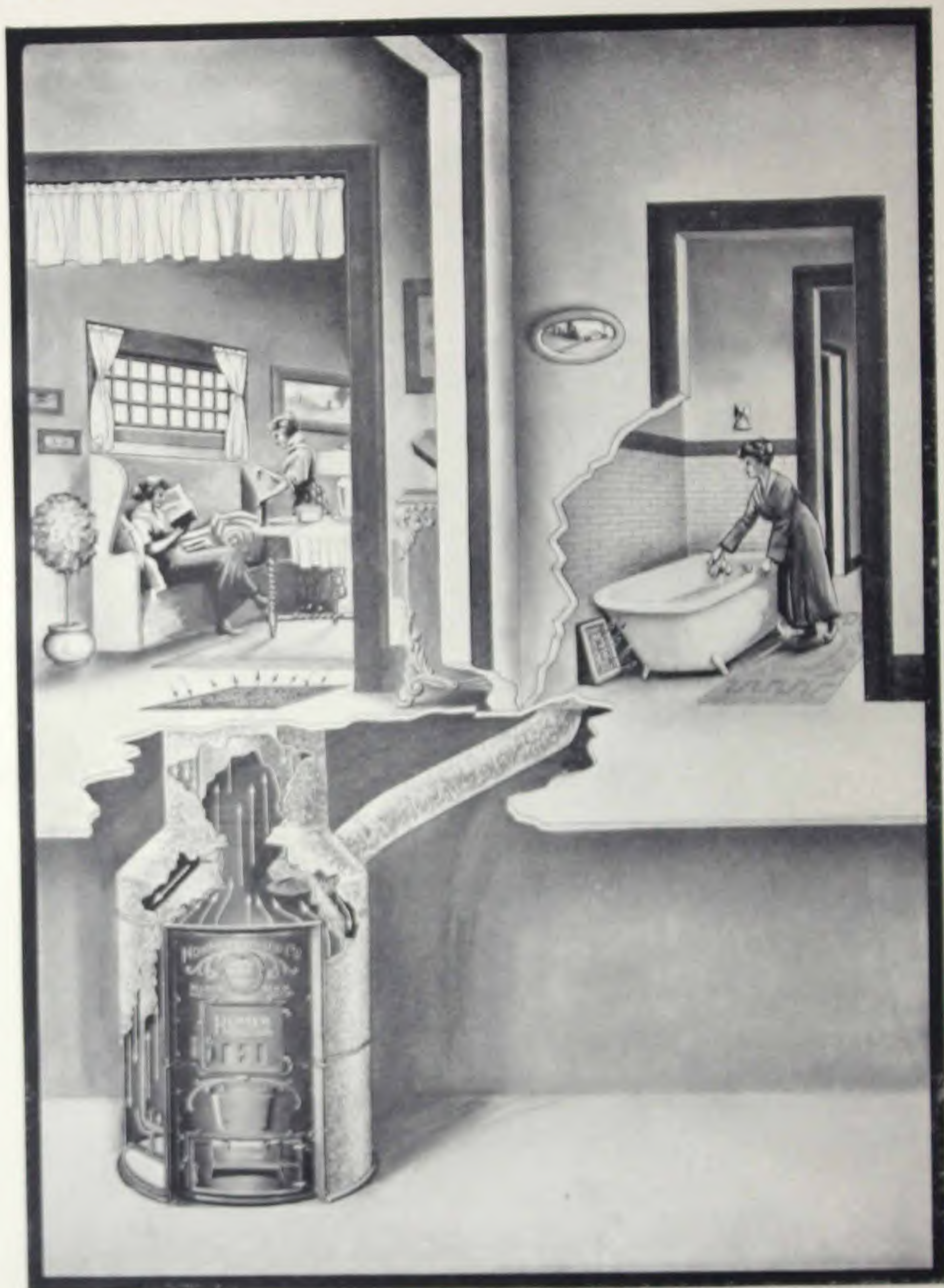
In a great many cases we find it necessary to heat a double house or store with one heating unit. This we are able to do with our Special Combination shown here. The principle incorporated is exactly the same as in the original Homer, only that two combination

hot and cold-air registers are used. Dampers are furnished so that one part may be closed when not needed. This system is furnished only in the No. 556 size, using two combination registers, each measuring 24x30 inches.





## HOMER ORIGINAL PATENTED PIPELESS FURNACE

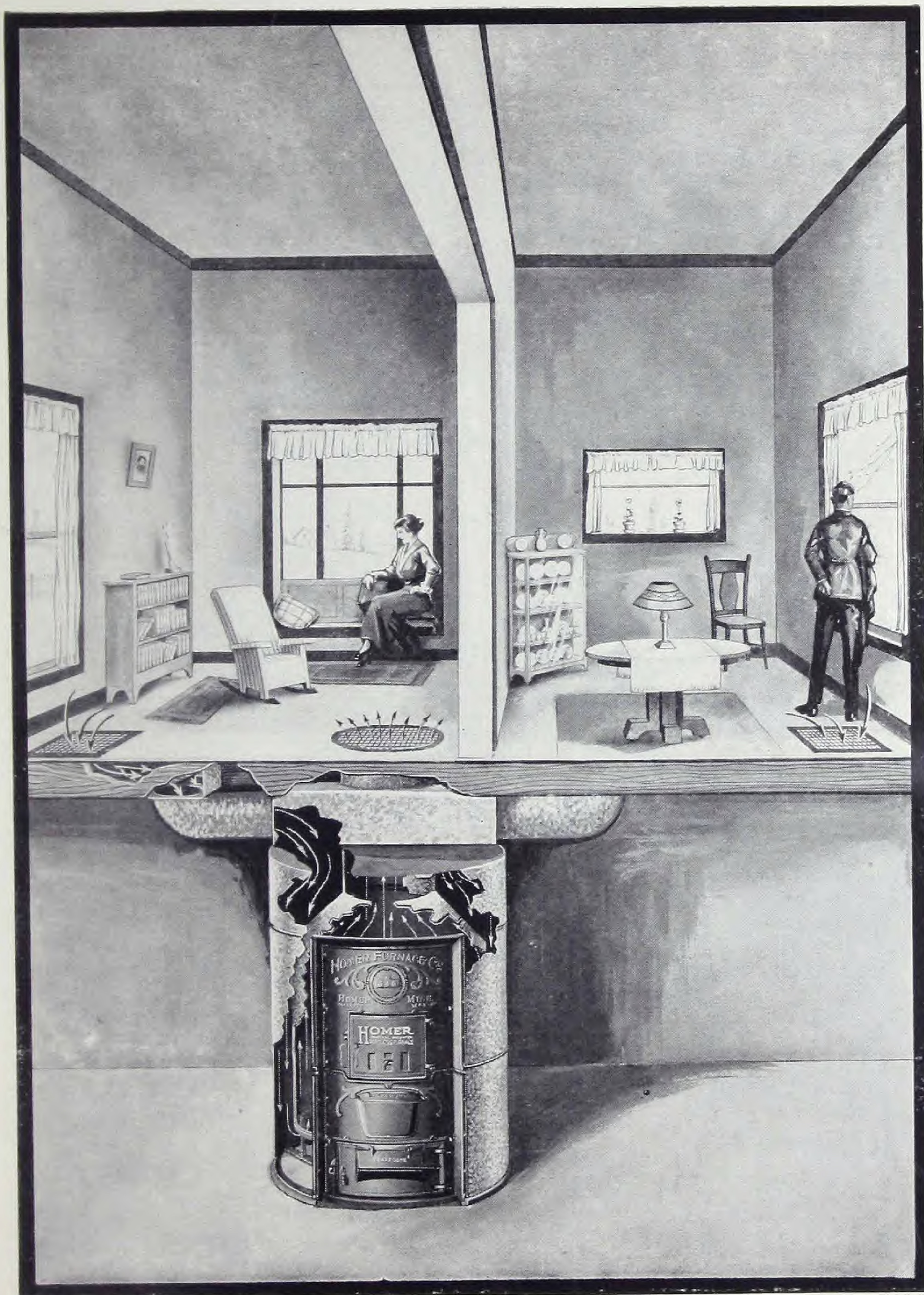


### *Hot-Air Pipe to Bath Room*

It is sometimes desirable to heat a bathroom independently from the rest of the house. This can be easily done by conveying the heat through a warm air pipe of sufficient capacity. Ample elevation or slant

should be provided so that the heat will flow freely to the room desired. A rise of about two inches to the foot is required, and eight-inch pipe has capacity for the average bath room.





### *Our Patented Three-Register System*

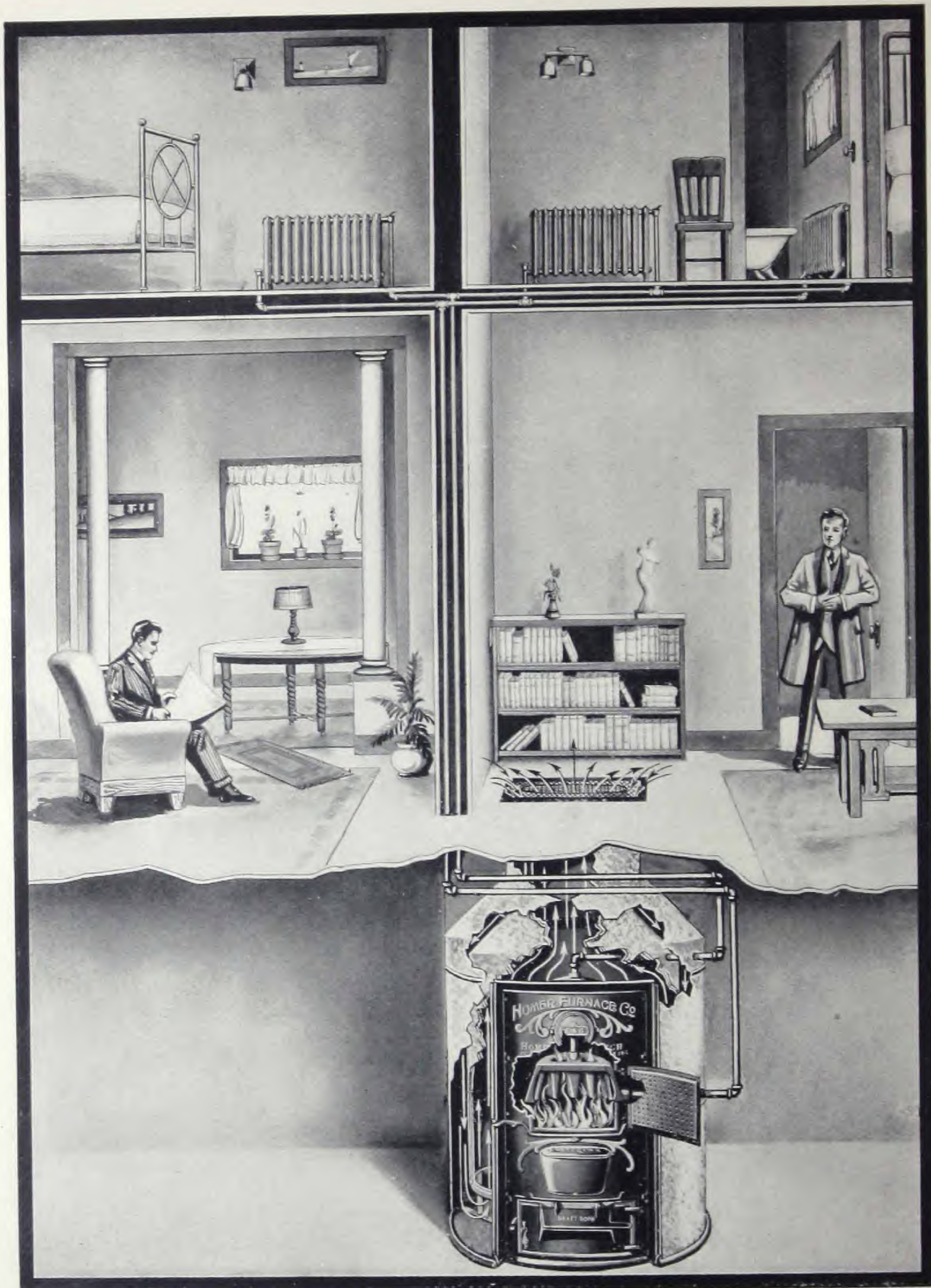
This method of heating is the only three-register system which enables the user to still maintain a cool basement in spite of the fact that the return air is conducted to the furnace through pipes. We have found some people who have the idea that more satisfactory results will be obtained by taking the

return air from the outside border of the room. We have built types of pipeless furnaces to conform with the wants of everybody. Bear in mind the fact that although pipes are used in connection with this type, **YOUR BASEMENT REMAINS COOL.**





## HOMER ORIGINAL PATENTED PIPELESS FURNACE

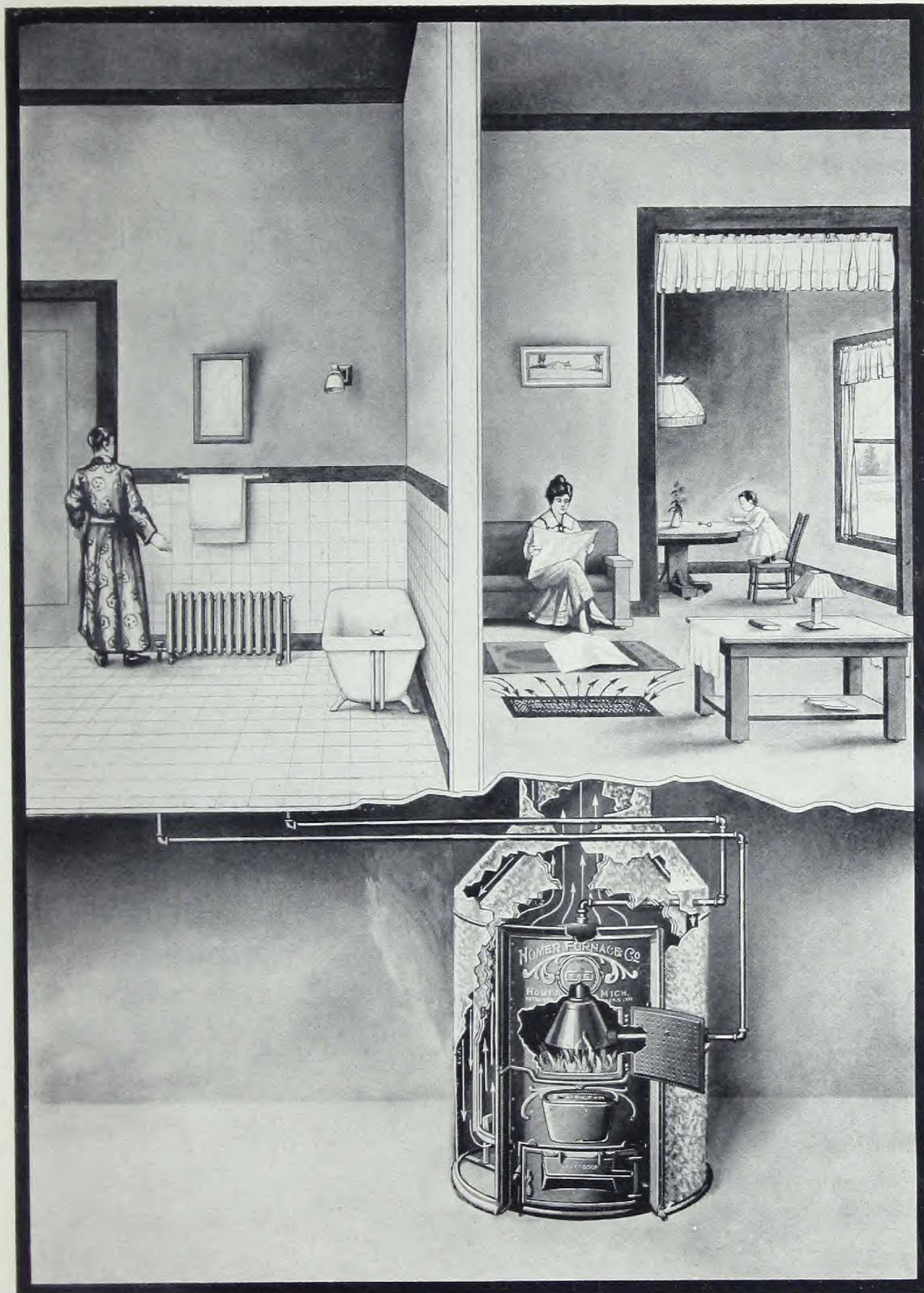


### *Combination Hot-Air and Hot-Water Plant*

The combination shown here, No. 200, is a distinct feature, for the reason that the lower rooms may be heated with our famous Homer, while the upper rooms may be perfectly warmed by hot water. This hot water heater has a capacity to take care of 150 feet

of actual radiation, or four rooms 10x12 feet. This combination water heater can be used in connection with furnaces No. 622, No. 546, No. 556 and No. 546P, No. 556P, No. 622P.





For special cases where it is impossible to properly heat the bath room through the door opening, we furnish a Cone Water Heater, No. 100, with about 50 feet of radiating capacity, which is much more than the ordinary bath room requires. The installation is very simple, and the connection between the water heater and radiator can be handled by any plumber or practical man. Of course this heater can

be used for heating any room where these same conditions exist, or where the doors connecting them with the main living rooms must be kept closed. The coil will fit all sizes of furnaces made by us, and has three  $1\frac{1}{4}$ -inch ports. It can be connected through our special front and feed section or from the top of the radiator, which makes it possible to install in any make of furnace.



# The Famous **HOMER** and

ORIGINAL PATENTED  
PIPELESS FURNACE

Note the Thermo-Seal Inner Lining — Heavy Galvanized Iron with asbestos insulator. Without it there would be no circulation of warm air. It keeps the return air cool until it reaches the base of the furnace. It sends all the heat to the rooms above. The Thermo-Seal is a distinct Homer feature.

The large Homer clean-out is conveniently placed to make occasional cleaning very easy.

The Homer fire door is extra large to allow use of large pieces of wood or coal.

Water pan with proper capacities is correctly located to moisten the warm air before it leaves the Homer.

The ash-pit door is dust-tight and is the right size to permit easy removal of ashes.

## How it Works

The pipeless way of heating is simply nature's way. Warm air rises; cool air descends. As the warm air leaves the combination register, it expands and fills the whole house. The return air is forced back to the furnace. As a result this circulation keeps every room warm and comfortable.



READ THE GUARANTY ON T



# the **Thermo-Seal** Inner Lining

air

Return Air



Outer and inner casings of the Homer are adjustable to any depth basement of six feet or more. They make airtight connections between the furnace and the register. Made of heavy galvanized iron.

Radiator—all cast, constructed in two pieces, "horse-shoe" type. Flues over-size, insuring free circulation; smoke passes completely around Radiator, which gives maximum extraction of heat before same passes to chimney.

Extra heavy, re-enforced fire pot with ribbing both on inside as well as outside. Made of pure Strokel iron and guaranteed to last five years.

Note the large air spaces which insure the proper ratio of warm and return air passing through the Homer. They are designed to allow all the air to pass through the furnace about every twenty-five minutes, giving a steady flow of warm air.

## How it Saves

The absence of wall pipes, the Thermo-Seal Inner Lining, large air capacities and general design give the Homer a record as a great fuel saver. It utilizes more heat generated by the fire than any other type of furnace. And because of its simplicity in construction, it costs less to install.

THE LAST PAGE OF THIS BOOK





## *How the Homer is Made to Last*

THE HOMER is made by the original pipeless furnace men. From the ash pit to the combination register, it is the production of expert workmen and honest material. Bear in mind that the Homer is not a pipe furnace with the pipes left off. It has been correctly designed in every detail and particular attention has been paid to the material entering into the manufacture of each part. That is why we are also able to guarantee the lasting qualities of the Homer.

The Homer is made to last a life time. It will burn hard or soft coal, coke or wood or slack and deliver the maximum amount of heat.

## *Strokel Iron Used for all Cast Parts*

The Homer cast parts are made of Strokel iron. Before we adopted Strokel iron, we were satisfied by the results of rigid tests and years of experimental work, that Strokel iron was the ideal material to put into the construction of the sturdy Homer. It was selected because of its excellent heat-withstanding qualities and its ability to stand the severest breaking tests.

Strokel iron is made according to our own formulas. Its durability has been proved. The first Homers are still in successful operation.

Strokel iron not only makes strong castings, but it provides a smooth even finish. And because this iron is carefully analyzed each day, every Homer part is certain to be of uniform quality. This means that one Homer is just as genuinely good as another.

Read the following detailed description of Homer parts and you will see why the Homer is also quality furnace.





*Ash Pit and Grate  
Regular Equipment*

Extra deep with almost perpendicular sides; grate rest and sides cast in one piece; large door space.



*Heavy Triangular Grate*

Which can be furnished at slight additional cost.





## *Homer Guaranteed Fire Pot*

We have so much confidence in the durability of this fire pot that we guarantee that it will not burn out in five years with any kind of usage while performing the service for which it is intended.

You will note that it is made extra heavy. The ribbing on the inside as well as the out-

side allows a free circulation of air to pass between the fire and fire pot and adds to the radiating surface 50%. This feature alone insures long life. The fire pot, in our different sizes, weighs nearly one-third of the entire weight of the furnace.

## *Ash Pit and Grates*

The Homer ash pit is made extra deep to lessen the danger of burning out grates. It is of heavy material with almost perpendicular sides. The top, or grate rest, and sides are cast in one piece, avoiding joints and making it virtually air-tight. An extra large ash door makes it very convenient to remove ashes.

The single grate shown on the preceding page is our famous Homer Draw Center Pattern constructed so as to allow free use of the poker through the ash pit draft door. The grate operates freely on roller bearings, making shaking an easy matter. The draw center also allows an easy removal of clinkers.

The Duplex Grate is preferred by some owners and is furnished in all sizes at slight additional cost.





### *Special Homer Radiator*

One of the secrets of the Homer's success is the way our special radiator helps the furnace to get every particle of heat possible from the smoke before it goes up the chimney. The smoke passes completely around the radiator, which presents a large surface of contact for the air passing through the chamber.

The radiator is cast in two pieces and is perfectly sealed. Note the large clean-out door which makes cleaning easy. All joints fit tightly and there is no danger of smoke or dirt leaking into the hot air passage.



### *Hot-Water Coil*

If you desire a hot water tank or a radiator we can furnish you this hot water coil, which can be installed in five minutes. It is

constructed so that it will rest on the top edge of the fire pot. It will not interfere in the least with the operation of the furnace.

### *Water Pan Provides Humidity*

Homer engineers have worked out a water pan of the proper size and location to furnish the correct amount of moisture in the air neces-

sary for health and comfort in your home. The accessible position of the water pan makes filling easy.





## *Sturdiness—a Homer Virtue*



The Homer with the Casings and Thermo-Seal Inner Lining removed to show the solidity of the iron work and the superior construction.

### *Perfect Fitting Joints*

All joints on the Homer are accurately fitted. They are made to allow for expansion and contraction and thus overcome any possibility of leakage of gas into the rooms.

### *Feed Section*

Note in the above illustration the size and durable appearance of the bell-shaped feed section.

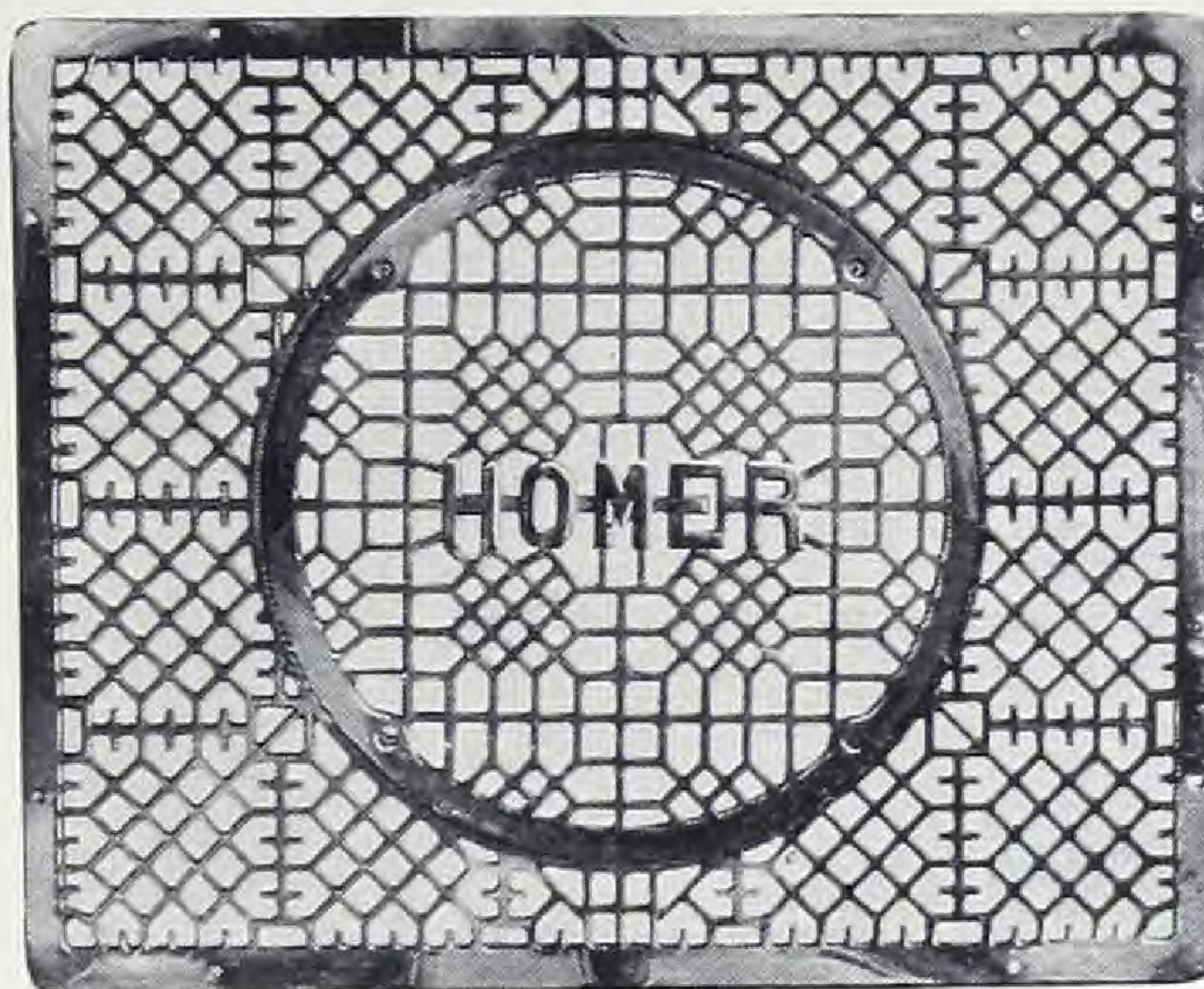
Your attention is also called to the extra large feed door, permitting large pieces of coal or wood to be used. The doors are fitted tightly and with the draft, control of the fire is positive.





## Heats through One Combination Register

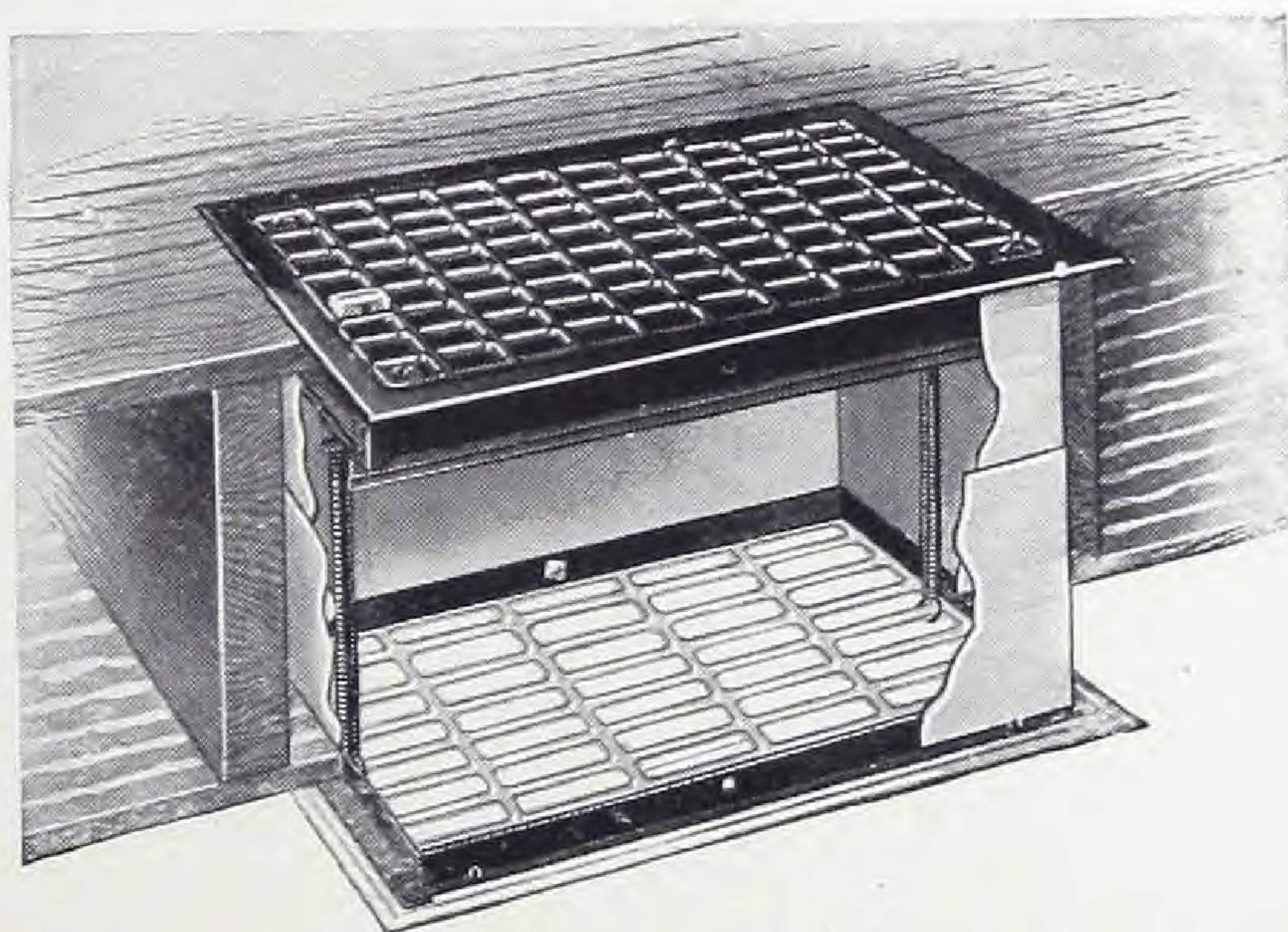
You will observe that the Homer register consists of two sections. The return air passes to the furnace through the outer part of the register and the warm air goes back to the rooms through the inner part. The correct size of these sections has been worked out scientifically by Homer engineers. To make them too small would mean a drafty rush of air; too large, a decided waste in fuel.



All registers are made to stand the greatest strain. They are finished in beautiful, old copper plate.

Because the return-air passage is between the warm-air register and the floor, all danger of fire, common to warm-air furnaces using pipes, has been overcome. The Thermo-Seal Inner-Lined Homer is absolutely safe.

## Ceiling and Transom Registers



For heating upstairs rooms, we recommend the use of our ceiling registers, which are adjustable to any thickness of floor.

When openings between rooms are not of sufficient size to permit an easy flow of warm air, it is advisable to use a wood plate

over the door. We furnish these plates in oak, cherry, walnut, bird's-eye maple, curly maple, curly birch, or quartered oak finish.





## *Special Advantages of Homer Heating and Ventilating*

---

### *Health and Sanitation*

THE HOMER will deliver to your rooms pure, moist, warm air which is constantly changing. The air will be free from dust, smoke and gas. It will add comfort to your home.

Every particle of air leaving the Homer is properly moistened. That means your house will not be filled with the dry, scorching air of the desert. Humidified Homer heat saves the furniture, prevents the joints of your tables, piano, or picture frames from cracking open.

### *Economy in Fuel*

The Homer is the great saver of fuel, because it is designed and constructed to use the maximum amount of heat generated by the fire. The Thermo-Seal Inner Lining protecting the return air in the outer chamber of the furnace keeps all the heat within the furnace. The single register means efficiency in the distribution of the hot air.

You will always have complete control of the fire because of the Homer ash pit and perfect joints. The Homer fire pot and combustion chamber give more complete combustion of fuel. In other words, you will consume the fuel more completely and at the same time not waste so much of the heat generated. The Homer radiator, with its long travel, supplies more heat in the hot air chamber and sends less up the chimney. And because the Homer water pan furnishes the right amount of moisture you will not need so great a temperature to keep your house comfortable. Actual tests have proved that dry air demands a temperature about 10 degrees higher than moist air to make the surroundings comfortable.

These features mean that you will save with your Homer a third to a half the fuel that other systems would require to maintain





the same temperature in your house. Read the book, "Their Own Words" and understand how the actual performance of thousands of Homers is bearing out these claims.

### *Durability*

The Homer is made to heat and to last. The foregoing detailed description has explained to you its permanency. Each Homer is backed by our five-year guarantee and with proper care it should last a life time.

### *Cleanliness*

The Homer does away with useless pipes. It will remove the ever present objections to stoves in living rooms—the smoke pipes, the carrying of fuel and ashes through the house. No dirt, no dust, no pipes, no flues—cleanliness assured.

### *Convenience*

Because it is simple in design and operation, the Homer is convenient to manage. Any woman can run it easily and successfully. The draft controls are operated from the rooms above. There is nothing complicated about the Homer.

### *Cool and Roomy Cellar*

The Homer is the first furnace that sends all the heat to the living rooms and keeps the cellar permanently cool. It can be set up in your cold storage cellar without danger of injuring vegetables.

It is suitable to any cellar of six feet depth or more. It can be operated in a space six feet square.

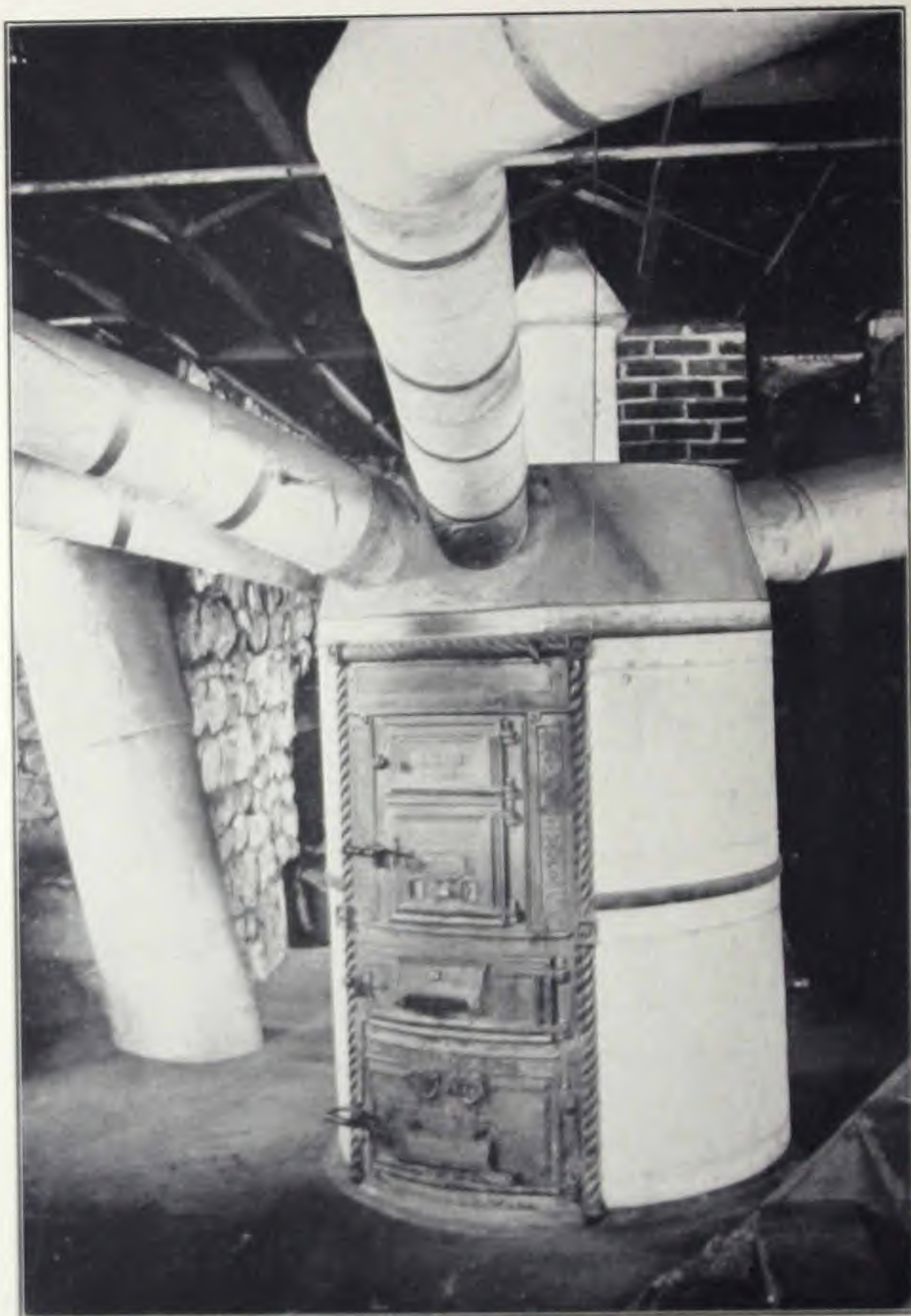
### *And it takes only one day to install*

The Homer is as easy to set up as an ordinary stove. The Homer Furnace Man cuts a square hole in your floor for the register, connects the register to the furnace, runs the smoke pipe to the chimney and the Homer is ready to fire. There is no need of mus-sing up your house or disturbing your walls and plaster. The whole operation takes only a few hours.





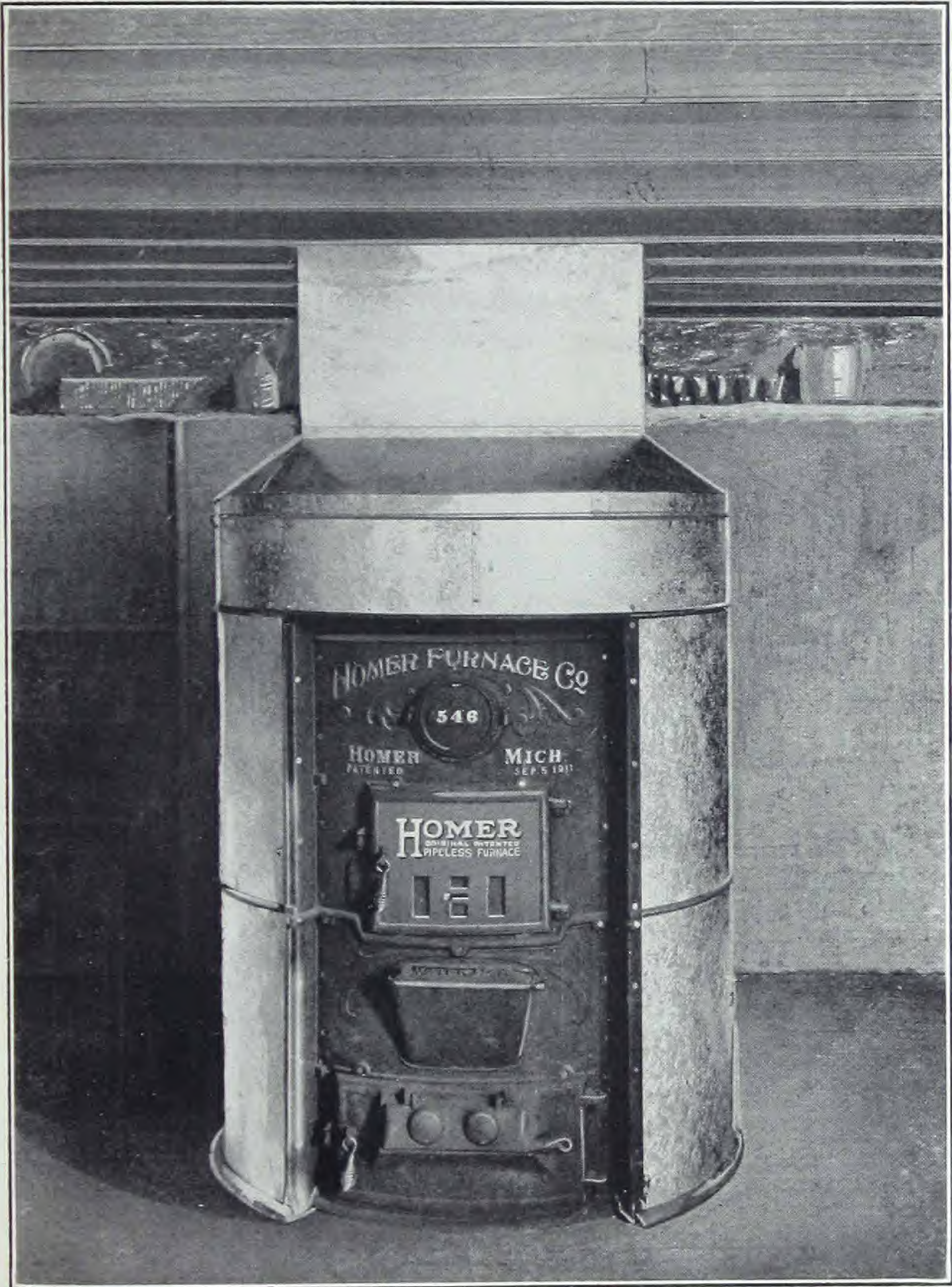
## HOMER ORIGINAL PATENTED PIPELESS FURNACE



### *The Old Way*

Note the multiplicity of pipes—the dust-collecting, the heat-radiating and space-taking pipes.





### *The Homer Way*

And, then, the Homer with its simple and beautiful lines, the clean and roomy cellar, always cool.





## *What You get when You buy a Homer*

WHEN you buy a Homer you are getting the product of the **Original Pipeless Furnace Makers**—a furnace that has been proved by ten years' experience.

Had not the Homer been fundamentally good, its adoption would not have become general. The Homer, the old reliable, has stood the test. It is not a creation of the hour, but a product that has been perfected through long years of trial.

When you set up a Homer in your basement, you can feel that you have a furnace that is going to heat and ventilate your house as no other furnace could heat it on the same amount of fuel.

### *Your Dealer Protects You*

The Homer is sold through local dealers. Your dealer is always there to stand back of the Homer. He will install it in your house and see that it is correctly set up. Take your heating problems to him. Ask him more about the pipeless principle.

If you have not read "Their Own Words," ask him or write us for a copy. Let Homer owners tell you frankly and honestly how the Homer is working for them. Many of them you may recognize as neighbors or persons in your section.

### *Our Engineers at Your Service*

At all times our heating and ventilating experts are at your service. If you are considering making a change in your heating system, send us a rough sketch of the floor plans of your house and we will be glad to analyze your problems for you.

This service is absolutely free and places you under no obligations. You can see that it is to our advantage to recommend a certain Homer only after the conditions which it must meet have been determined. This service is gratis because we cannot afford to sacrifice our reputation by giving users less than complete satisfaction.

The Homer Furnace Company, Homer, Michigan.





## Homer Design Insures Proper Capacities

The success of the Homer is partly due to its ability to handle a large body of air. Proper heating capacity means that there will be a steady flow of air through the Homer and not the fast, drafty rush of air set up by other makes of pipeless furnaces.

### Note these Proportions

	No. 540-A and 740-A	No. 622-A and 822-A	No. 546-A and 746-A	No. 556-A and 756-A
Diameter of casings, inches . . . . .	40	40	46	56
Height of casings, inches . . . . .	66	66	66	72
Inside diameter of fire pot . . . . .	20	22	24	28
Weight of fire pot, about, lbs . . . . .	155	100	250	300
Depth of fire pot, inches . . . . .	10½	10½	12	12
Height to top of smoke pipe, inches . . . . .	44	44	47	50
Size of feed door, inches . . . . .	10¼x12½	10¼x12½	11¾x13½	12x13½
Depth of ash pit, inches . . . . .	9¼	9¼	10	12
Width of ash pit door, inches . . . . .	16	16	20	22
Diameter of radiator, inches . . . . .	27½	27½	31½	39
Size of combination register, inches . . . . .	23½x29½	23½x29½	23½x29½	32x32
Heating capacity, cubic feet, about . . . . .	15 to 18,000	18 to 20,000	20 to 25,000	25 to 45,000
Heating capacity, rooms . . . . .	3 to 5	5 to 7	7 to 9	9 to 12
Weight of castings only, lbs . . . . .	700	650	1035	1420
Shipping weight, lbs . . . . .	900	850	1300	1700

500 and 600 series equipped with flat grates.  
700 and 800 series equipped with triangular grates.



# HOMER

ORIGINAL PATENTED  
PIPELESS FURNACE

Sold by Dealers Everywhere  
Guaranteed by the Makers  
and Endorsed by More Users  
than all others combined